User Manual
Revision 2.001
English

din rail smart pulse collector

Shanghai fangqiu electric CO.,LTD.

Benefits and Main Features

- Standard DIN rail Format (DIN43880)
- Collect 1-8 utility meters with volt free pulse contacts.
- Using Modbus connectivity to the Fineco power control system V1.0
- Independently programmed for both utility type and tariff structure enabling Water, Gas, Electric and heat meters etc
- Data can be output directly into excel, word, pdf via fineco power control system v1.0
- Small size, light weight
- Lower power consumption
- Safe and has highly reliability and interference

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The device is a din rail mounted data collection devices capable of accepting up to 8 utility meters with volt free pulse contacts. Each input is totally independently programmed or both utility type and tariff structure enabling water , Gas, Electric and Heat meters etc to be collected on a single device

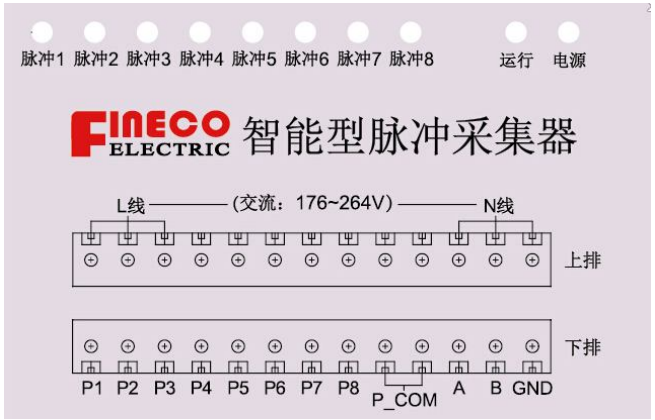
The HCC uses RS485 bus, up to 64 devices to be wired on a bus. Using Modbus protocol connectivity to the Fineco power control system V1.0. Data can be output directly into excel, word, pdf.

1. Technical Parameters

Operating temperature	-20°C ～ +70°C
Storage temperature	-30°C ～ +80°C
Humanity	20～90%RH
Input terminals	8 Sets of +/-(Volt free)
Burden	Less than 1VA
Auxiliary Supply	230v±30%
RS485 bus details	Baud rate: 1200bps
	Protocol: Modbus RTU
Standards	EMC testing for emissions
Material	ABS+PC
Connection area main terminals	0-2.5mm^2

2. Dimensions

3. Wiring diagrams



4. Main function

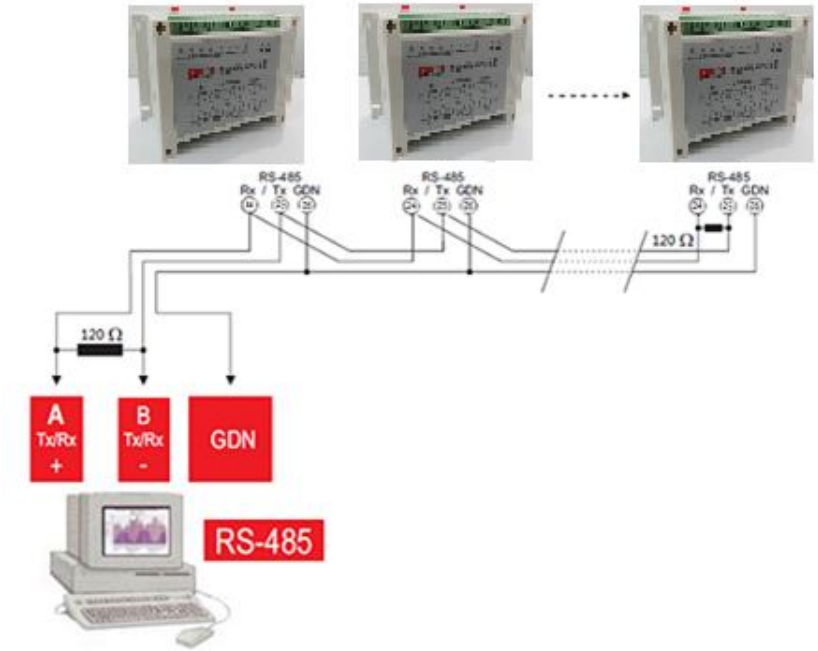
4.1 Pulse input connections

Terminal P1-P8 are dedicated for pulse from external meters and care should be taken when connecting to these terminals. A red indicator LED has been allocated and will flash number 1-8 to indicate the HCC receiving pulses from external meters connected.

4.2 Communication Function

With a RS485 COM. Independently programmed for both utility type and tariff structure enabling Water, Gas, Electric and heat meters etc

RS485 communications transfer rates allow selected at 1200bps



Note:

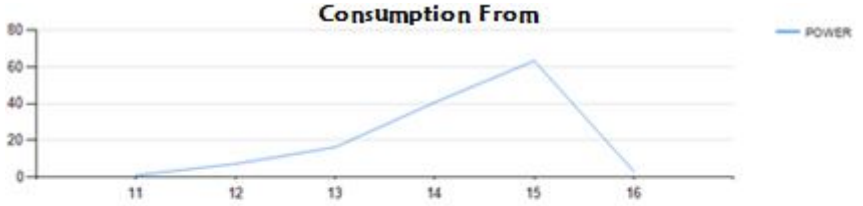
1.Use shielded twisted pair (24AWG PVC)

2.Connect 120Ω resistances with communication equipment and Energy meters to preventing signal reflection and interference.

3.Communication circuit should keep distance with Large current circuit and shall not be parallel with it

4.3 Data output

Data can be output directly into excel, word, pdf via fineco power control system v1.0.



NETCOM IP	Consumption	Time
192.168.1.102	0.95	11
192.168.1.102	7.18	12
192.168.1.102	16.25	13
192.168.1.102	40.62	14
192.168.1.102	63.31	15
192.168.1.102	3.05	16

5. Register map

Address (hex)	Length (bytes)	Parameter Name	Access (R/W)	Function code	Data Format	Units
0x0111E	48	Active Energy	R/W	03/10	Hex	Channel1 kWh、constant、scale、。。。。。。。。。。。。。。Channel8 kWh、constant、scale、
0x0524	6	Modbus slave address number	R/W	03/06	16 bit	00 broadcast id

6. Technical support

Any questions, please contact:

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